

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application.

**Listing of the Claims:**

Claim 1. (Previously presented) An array consisting of a plurality of nucleic acid probes, wherein each probe in the plurality of nucleic acid probes consists of one of the sequences listed in SEQ ID Nos. 1-124,031 and wherein the plurality of nucleic acid probes of the array consists of each of the sequences listed in SEQ ID NOS. 1-124,031.

Claim 2. (Currently amended) ~~[[The]]~~ An array of claim 1 further consisting of a second plurality of nucleic acid probes, wherein each probe in the ~~second~~ plurality of nucleic acid probes consists of one of the sequences listed in SEQ ID NOS. 1-124,031 or the complement of one of the sequences listed in SEQ ID NOS: 1-124,031 and wherein the ~~second~~ plurality of nucleic acid probes consists of each of the sequences listed in SEQ ID NOS. 1-124,031 and the complement of each of the sequences listed in SEQ ID NOS: 1-124,031.

Claim 3. (Currently amended) ~~[[The]]~~ An array of claim 2 further consisting of a third plurality of nucleic acid probes attached to a support, wherein each probe in the ~~third~~ plurality of nucleic acid probes consists of one of the sequences listed in SEQ ID NOS. 1-124,031 or the sequence of one of the sequences listed in SEQ ID NOS: 1-124,031 except with a mismatch at the central position and wherein the plurality of nucleic acid probes consists of each of the sequences listed in SEQ ID NOS. 1-124,031 and each of the sequences listed in SEQ ID NOS. 1-124,031 with a mismatch at the central position.

Claim 4. (Currently amended) ~~The array of claim 1~~ An array consisting of a plurality of nucleic acid probes, wherein each probe in the plurality of nucleic acid probes consists of one of

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the sequences listed in SEQ ID Nos. 1-124,031, wherein the plurality of nucleic acid probes of

the array consists of each of the sequences listed in SEQ ID NOS. 1-124,031 and wherein each

probe is attached to a bead.

Claims 5-7 (canceled)